

Practitioner's Docket No. **MPI97-057P1RCP1CN1M**

PATENT

In re application of:	Chau, Vincent		
Application No.:	10/681690	Group No.:	1652
Filed:	October 8, 2003	Examiner:	Fronda, Christian, L.
For:	NEDD-8 CONJUGATING ENZYME 1 AND METHODS OF USE		

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

DECLARATION UNDER 37 C.F.R. § 1.131

Sir:

I, Tatiana Gladysheva, hereby declare and state:

1. I am a biochemist who was performing studies at Proscript, Inc. (which later became part of Millennium Pharmaceuticals, Inc.) under the direction of the inventor of the subject matter described and claimed in the above-identified application.
2. I performed the PCR and sequencing studies to identify and characterize the NEDD-8 conjugating enzyme 1 in the United States before August 1, 1998.
3. Evidence is provided by the following:
 - a) Prior to August 1, 1998, I had completed the sequencing of the overlapping clones which led to the full length NEDD-8 conjugating enzyme 1 (NCE1). Exhibit A is a copy of my notebook pages evidencing studies wherein I performed PCR of cDNA from a human leukocyte library and sequenced the products. The sequences detailed on pages 126-127 are sequences of the PCR products which cover the reverse complement of NCE1. In order, they cover the nucleotides

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

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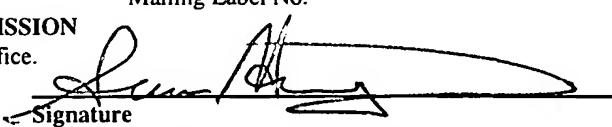
37 C.F.R. SECTION 1.8(a)

37 C.F.R. SECTION 1.10*

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Sean Hunziker/Beverly Sotiropoulos

Date: _____

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363-108, 445-232, 116-1 (with some 5' untranslated nucleotides), 198-111, 553-360 and 553-500 (with some 3' untranslated nucleotides). The match of these sequences to the NCE1 nucleotide sequence can be followed by comparing the sequences on my notebook pages to the lower nucleic acid sequence line of Figure 2 of the application. The notebook pages bear the dates on which I performed the studies and the date on which my notebook was witnessed (by ESL). In the original notebook, these dates are prior to August 1, 1998. In accordance with accepted practice, the dates on the copies of the notebook pages have been masked (M.P.E.P. § 715.07).

b) Exhibit B is a copy of an electronic printout of the complete coding and noncoding nucleic acid sequences, matched to the amino acid sequence of NCE1 from Proscript's sequence database. The upper nucleic acid strand on this printout is SEQ ID NO:3 of the application and the amino acid sequence on the printout is SEQ ID NO:4 of the application. These sequences were used for Figure 2 of the application. The printout bears an automatically stamped date of printing and the title, "ubc12." The original printout bears a date prior to August 1, 1998. In accordance with accepted practice, the date on the copy of the electronic printout have been masked (M.P.E.P. § 715.07).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Gladysheva
Tatiana Gladysheva

02. 11. 2006

Date

NOTEBOOK NO. 2 NIH
ISSUED TO Tatiana Gladyskova
ON 19
DEPARTMENT Biochemistry
RETURNED 19

—SCIENTIFIC NOTEBOOK CO.—
2831 LAWRENCE AVE.
P.O. BOX 238
STEVENVILLE, MI 49127
616-429-8285

(81) PCR out the UBCH12 (*Prokaryotes*, *humans*, *endothelial*) cont'd.

1st run:

	tubes	template	DNA	total volume 100μl	dNTP	primers (50pmol)	UBCH12 FP
1	(out 1:10 dilution)	0.1μl	7.6μl	10μl	10μM	1μl + 1μl	UBCH12 RP
2		0.5μl	7.5μl	10μl	10μM	1μl + 1μl	

Run the cycles (30) ~ 2.5 h (1234 program)

95°C	30"	30 times	→ 4°C for cool.
55°C	30"		
72°C	1'		

2nd run:

	tubes	template	DNA	10X PCR buffer	dNTP	primers	UBCH12 (core-plate) FP
I:	1-2	2μl	15μl	20μl	2μl	2μl	✓ UBCH12 (Master) FP
II:	3-4	2μl	15μl	20μl	2μl	2μl	

Tubes I and II were divided into 1 and 2;
and 3 and 4: 9μl in each tube

Polymerase 1μl were added in each of 4 tubes to start the reactions; 100μl is the total volume

Run 30 cycles, the same program (1,2,3,4)

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UBCH12 Sequence

RPT: long

+ggc Hccag t cctc +tga gg atg H gagg cag ac
g +g ecc tc gagg tc aa +g Hgggg +gat gagace Hg
tc tca cac H ca cc H gggggg atc a +gc ggg +aa cce
t. gg. ccc a cc H aaaa c t gac cac a a c H ccc a ct c Hgt
a gaa g cce tc atc a gg a c a g a t gce a c a g H gaa gt g a
g g a g a t c g t c t g g a t c t g a g a d g t g a t a t c a c a c g t c t
g g g c a g g H c a g c t c g H a t c f c
gg a ca a a t a c c a a c t H a a g t

RP 1 si

ggacac - acaactatag tt : agt ggg tcc tc g
tt ggg ct ccaaz aaz aatc atg cagg cc aatc
tt a + gaa g tt atcg + gaggg aat ggc tcc a tcc
tcc tc gaa ga a + gta gaa gg cag r cg tg cca ttc gaaa
tcaat tg A gggg + ggt a g a Ec a t atc tc aatc
tt caccc tt gggg aatc a tgc ggc taa ccc tcc
ccc aatc tt atc aatc aatc

RP2 Lucy

HatgtccHctggatcegcacagctgca cggccggccgg
Hcttgcctgtgtcc Hggatcgccgcatggcgcac
tcc Hc Hc + gctgc Hcd ccgaggaa cagct Hgatac
atatgtatatac + cd Hc + aaaa gttaaaacaaaa + aHct
agaaggaa ceg Hgtggtdtccetat + tagtgagct
gtatccgg Hc gaag + ttcac aaaa g Hc gaa t

Net
Ct^t get
Ctg ecu Hgg.

ccttctggat

EP2 Sh

(12)
ES

Primer
CV 849

cont. 9

ggtc tattcaggca gcg ctcaaa gtaggtggcc
gatgttgc a cccc gc at gg ag cg tc gacgg tc
tgctcaaa ca g ecg cc gg Hg Hc + gc agg a ctt
gc gg cc tcc Hg Hc ag tggg tcc tc gggg Hg ggctcc
aa gaa ga gata ctgca gg cc at aa. Hg tgggg Hg atc
gttaa gga ctggc

CV 54

Primer
gcattgg + aactgtca gaa caag Htactcaata
cttaga Hgaa Hc tc atg Hgacggatca
ga ta a g c Hc ta Hc agg ca g c gc tc a a g t a
gg + gg a g c e g at g t a g c a c c c g c a t g g

Exhibit B to Accompany Declaration under 37 CFR
1.131 and Amendment and Response to May 3, 2006
Office Action in USSN 10/681,690

+1 M I K L F S L K Q Q K K E E E S A
 1 ATGATCAAGC TGTTCTCGCT GAAGCAGCAG AAGAAGGAGG AGGAGTCGGC
 TACTAGTCG ACAAGAGCGA CTTCGTCGTC TTCTTCCTCC TCCTCAGCCG

+1 G G T K G S S K K A S A A Q L R
 51 GGGCGGCACC AAGGGCAGCA GCAAGAAGGC GTCGGCGGCG CAGCTGCGGA
 CCCGCCGTGG TTCCCGTCGT CGTTCTTCCG CAGCCGCCGC GTCGACGCCCT

+1 I Q K D I N E L N L P K T C D I S
 101 TCCAGAAAGGA CATAAACGAG CTGAACCTGC CCAAGACGTG TGATATCAGC
 AGGTCTTCCT GTATTTGCTC GACTTGGACG GGTTCTGCAC ACTATAGTCG

+1 F S D P D D L L N F K L V I C P D
 151 TTCTCAGATC CAGACGACCT CCTCAACTTC AAGCTGGTCA TCTGTCCTGA
 AAGAGTCTAG GTCTGCTGGA GGAGTTGAAG TTCGACCAGT AGACAGGACT

+1 E G F Y K S G K F V F S F K V G
 201 TGAGGGCTTC TACAAGAGTG GGAAGTTGT GTTCAGTTT AAGGTGGGCC
 ACTCCCGAAG ATGTTCTCAC CCTTCAAACA CAAGTCAAAA TTCCACCCGG

+1 Q G Y P H D P P K V K C E T M V Y
 251 AGGGTTACCC GCATGATCCC CCCAAGGTGA AGTGTGAGAC AATGGTCTAT
 TCCCCAATGGG CGTACTAGGG GGGTCCACT TCACACTCTG TTACCAAGATA

+1 H P N I D L E G N V C L N I L R E
 301 CACCCCAACA TTGACCTCGA GGGCAACGTC TGCCCTCAAACA TCCTCAGAGA
 GTGGGGTTGT AACTGGAGCT CCCGTTGCAG ACGGAGTTGT AGGAGTCTCT

+1 D W K P V L T I N S I I Y G L Q
 351 GGACTGGAAG CCAGTCCTTA CGATAAAACTC CATAATTAT GGCCTGCAGT
 CCTGACCTTC GGTCAGGAAT GCTATTGAG GTATTAATAA CCGGACGTCA

+1 Y L F L E P N P E D P L N K E A A
 401 ATCTCTTCTT GGAGCCCAAC CCCGAGGACC CACTGAACAA GGAGGCGCA
 TAGAGAAGAA CCTCGGGTTG GGGCTCCTGG GTGACTTGT CCTCCGGCGT

+1 E V L Q N N R R L F E Q N V Q R S
 451 GAGGTCTGC AGAACAAACCG GCGGCTGTT GAGCAGAACG TGCAGCGCTC
 CTCCAGGACG TCTTGTGGC CGCCGACAAA CTCGTCTGC ACGTGCGAG

+1 M R G G Y I G S T Y F E R C L K
 501 CATGCGGGGT GGCTACATCG GCTCCACCTA CTTTGAGCGC TGCTGAAAT
 GTACGCCCCA CCGATGTAGC CGAGGTGGAT GAAACTCGCG ACGGACTTTA

+1 *
 551 AG
 TC